

DECLARATION AND POWER OF ATTORNEY FOR U.S. PATENT APPLICATION

☒ Original () Supplemental () Substitute () PCT () Design

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Title: MODULATOR, DEMODULATOR, AND TRANSMISSION SYSTEM FOR USE IN OFDM TRANSMISSION

of which is described and claimed in:

- (☒) the attached specification, or
 () the specification in the application Serial No. _____ filed _____;
 and with amendments through _____ (if applicable), or
 () the specification in International Application No. PCT/ _____, filed _____, and as amended
 on _____ (if applicable).

I hereby state that I have reviewed and understand the content of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.

I acknowledge my duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim priority benefits under Title 35, United States Code, §119 (and §172 if this application is for a Design) of any application(s) for patent or inventor's certificate listed below and have also identified below any application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NO.	DATE OF FILING	PRIORITY CLAIMED
Japan	144848/1998	May 26, 1998	Yes

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

APPLICATION SERIAL NO.	U.S. FILING DATE	STATUS: PATENTED, PENDING, ABANDONED

And I hereby appoint John T. Miller, Reg. No. 21,120; Michael R. Davis, Reg. No. 25,134; Matthew M. Jacob, Reg. No. 25,154; Jeffrey Nolton, Reg. No. 25,408; Warren M. Cheek, Jr., Reg. No. 33,367; Nils E. Pedersen, Reg. No. 33,145 and Charles R. Watts, Reg. No. 33,142, who together constitute the firm of WENDEROTH, LIND & PONACK, L.L.P., attorneys to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith.

I hereby authorize the U.S. attorneys named herein to accept and follow instructions from Ogasawara Patent Office as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and myself. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by me.

Send Correspondence to

WENDEROTH, LIND & PONACK, L.L.P.
2033 K Street, N.W., Suite 800
Washington, DC 20006

Direct Telephone Calls to:

WENDEROTH, LIND & PONACK, L.L.P.
Area Code (202) 721-8200

Direct Facsimile Messages to:

Area Code (202) 721-8250

Full Name of First Inventor	FAMILY NAME SHIRAKATA	FIRST GIVEN NAME Naganori	SECOND GIVEN NAME
Residence & Citizenship	CITY Suita	STATE OR COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan
Post Office Address	ADDRESS 9-1-202, Aobaokakita, Suita-shi, Osaka-fu, Japan	CITY	STATE OR COUNTRY ZIP CODE 565-0801
Full Name of Second Inventor	FAMILY NAME HARADA	FIRST GIVEN NAME Yasuo	SECOND GIVEN NAME
Residence & Citizenship	CITY Kobe	STATE OR COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan
Post Office Address	ADDRESS 6-7-713, Takenodai, Nishi-ku, Kobe-shi, Hyogo-ken, Japan	CITY	STATE OR COUNTRY ZIP CODE 651-2274
Full Name of Third Inventor	FAMILY NAME HAYASHINO	FIRST GIVEN NAME Hiroshi	SECOND GIVEN NAME
Residence & Citizenship	CITY Himeji	STATE OR COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan
Post Office Address	ADDRESS 526 Sazuchi, Besho-cho, Himeji-shi, Hyogo-ken, Japan	CITY	STATE OR COUNTRY ZIP CODE 671-0224
Full Name of Fourth Inventor	FAMILY NAME TANAKA	FIRST GIVEN NAME Koichiro	SECOND GIVEN NAME
Residence & Citizenship	CITY Takarazuka	STATE OR COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan
Post Office Address	ADDRESS 2-4-12, Chigusa, Takarazuka-shi, Hyogo-ken, Japan	CITY	STATE OR COUNTRY ZIP CODE 665-0072

Full Name of Fifth Inventor	FAMILY NAME NAKAHARA	FIRST GIVEN NAME Hideki	SECOND GIVEN NAME
Residence & Citizenship	CITY Kyoto	STATE OR COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan
Post Office Address	ADDRESS 2-1-11, Minegado-cho, Goryo, Nishikyo-ku, Kyoto-shi, Kyoto-fu, Japan	CITY	STATE OR COUNTRY ZIP CODE 610-1103
Full Name of Sixth Inventor	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
Residence & Citizenship	CITY	STATE OR COUNTRY	COUNTRY OF CITIZENSHIP
Post Office Address	ADDRESS	CITY	STATE OR COUNTRY ZIP CODE
Full Name of Seventh Inventor	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
Residence & Citizenship	CITY	STATE OR COUNTRY	COUNTRY OF CITIZENSHIP
Post Office Address	ADDRESS	CITY	STATE OR COUNTRY ZIP CODE

I further declare that all statements made herein of my own knowledge are true, and that all statements on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

1st Inventor Naganori Shirakata Date April 20th, 1999
 2nd Inventor Yasuo Harada Date April 20th, 1999
 3rd Inventor Hiroshi Hayashino Date April 20th, 1999
 4th Inventor Koichiro Tanaka Date April 20th, 1999
 5th Inventor Hideki Nakahara Date April 20th, 1999
 6th Inventor _____ Date _____
 7th Inventor _____ Date _____

The above application may be more particularly identified as follows:

U.S. Application Serial No. _____ Filing Date _____
 Applicant Reference Number FP-0414 Atty Docket No. _____
 Title of Invention MODULATOR, DEMODULATOR, AND TRANSMISSION SYSTEM FOR USE IN OFDM
TRANSMISSION